

RNF25 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP59194

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q96BH1
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51219

Additional Information

Gene ID	64320
Other Names	E3 ubiquitin-protein ligase RNF25, 2.3.2.27, RING finger protein 25, RING-type E3 ubiquitin transferase RNF25, RNF25
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:50-200,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	RNF25 {ECO:0000303 PubMed:36638793, ECO:0000312 HGNC:HGNC:14662}
Function	E3 ubiquitin-protein ligase that plays a key role in the RNF14-RNF25 translation quality control pathway, a pathway that takes place when a ribosome has stalled during translation, and which promotes ubiquitination and degradation of translation factors on stalled ribosomes (PubMed: 36638793 , PubMed: 37651229 , PubMed: 37951216). Catalyzes ubiquitination of RPS27A in response to ribosome collisions, promoting activation of RNF14 (PubMed: 36638793). RNF25 catalyzes ubiquitination of other ribosomal proteins on stalled ribosomes, such as RPL0, RPL1, RPL12, RPS13 and RPS17 (PubMed: 36638793). Also involved in ubiquitination and degradation of stalled ETF1/eRF1 (PubMed: 36638793 , PubMed: 37651229). Independently of its function in the response to stalled ribosomes, mediates ubiquitination and subsequent proteasomal degradation of NKD2 (By similarity). May also stimulate transcription mediated by NF-kappa-B via its interaction with RELA/p65 (PubMed: 12748188).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q7SXJ6}.

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